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(74) Agents: MESTROM, J., J., L. et al.; Intervet International
B.V., P.O. Box 31, NL-5830 AA Boxmeer (NL).

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(71) Applicant (for all designated States except US): **AKZO
NOBEL N.V.** [NL/NL]; Velperweg 76, NL-6824 AB Am-
hem (NL).

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(72) Inventor; and

(75) Inventor/Applicant (for US only): **VERMEIJ, Paul**
[NL/NL]; Lepelstraat 3, NL-5845 BK St. Anthonis (NL).

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(54) Title: **LAWSONIA INTRACELLULARIS SUBUNIT VACCINES**

(57) Abstract: The present invention relates i.a. to nucleic acids encoding novel *Lawsonia intracellularis* proteins. It furthermore relates to DNA fragments, recombinant DNA molecules and live recombinant carriers comprising these sequences. Also it relates to host cells comprising such nucleic acids, DNA fragments, recombinant DNA molecules and live recombinant carriers. Moreover, the invention relates to proteins encoded by these nucleotide sequences and to their use for the manufacturing of vaccines. The invention also relates to vaccines for combating *Lawsonia intracellularis* infections and methods for the preparation thereof. Finally the invention relates to diagnostic tests for the detection of *Lawsonia intracellularis* antigens and of antibodies against *Lawsonia intracellularis*.



WO 2005/070958 A3